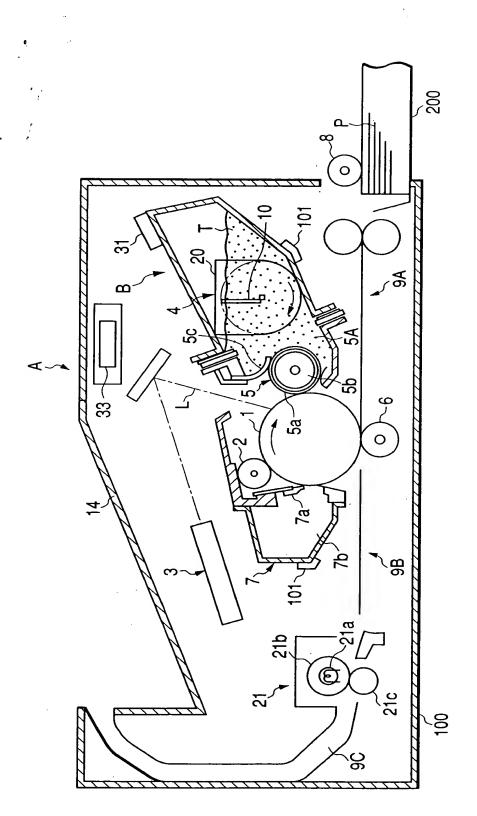
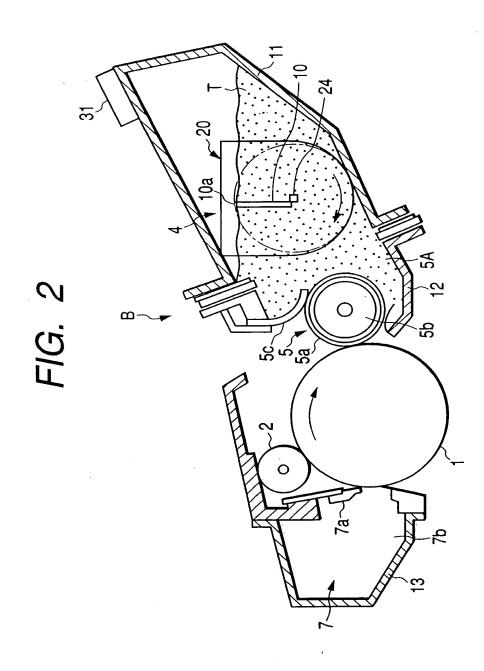
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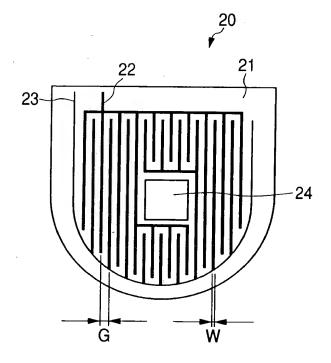


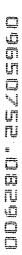


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FIG. 3





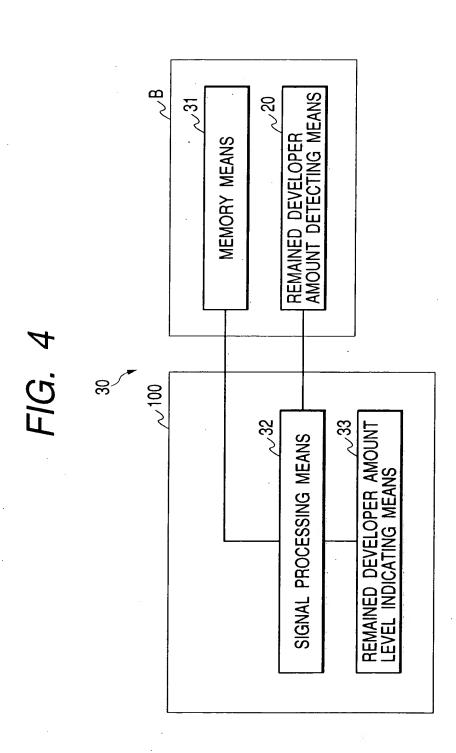
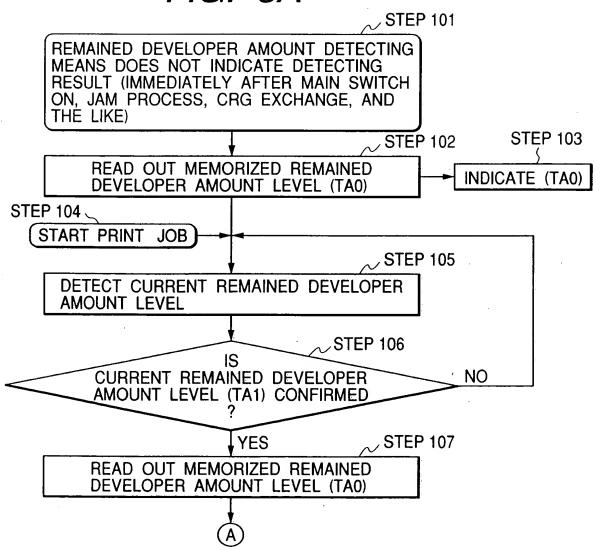
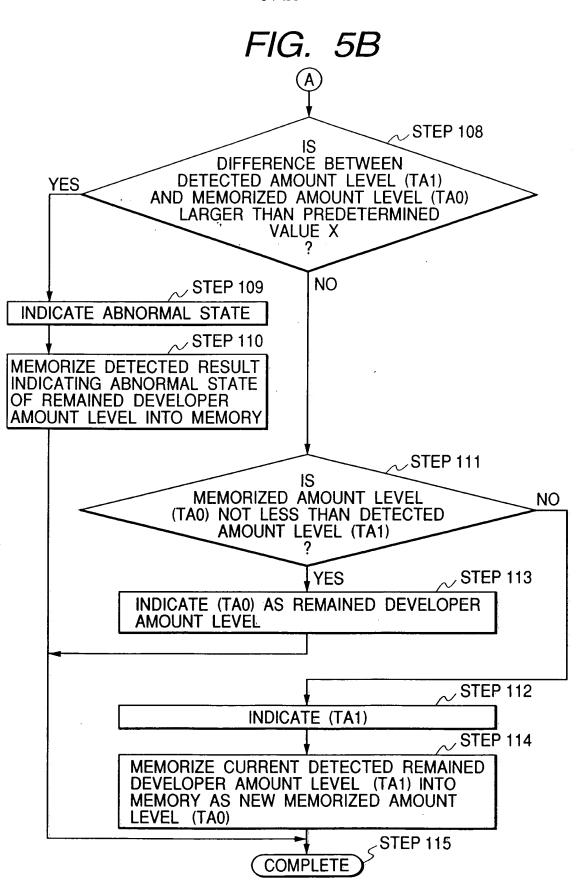


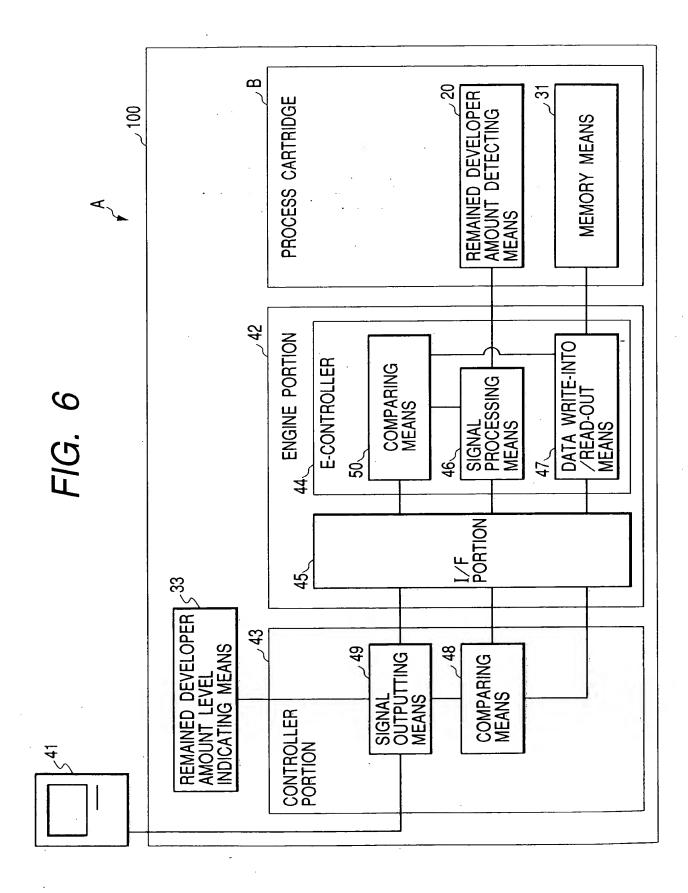
FIG. 5A

FIG. 5B

FIG. 5A

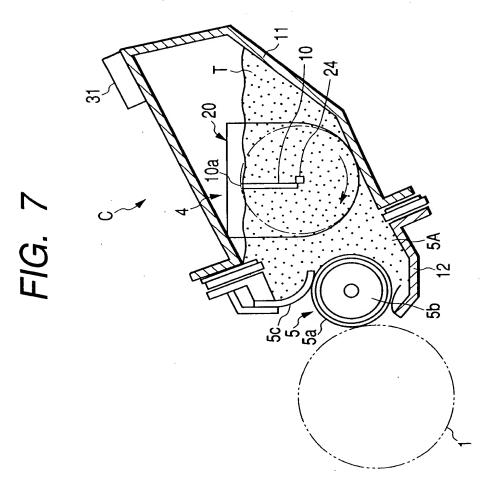






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REMAINED DEVELOPER AMOUNT DETECTING MEANS 22 <u>~</u> MEMORY MEANS ∑ 100 \sim 132 £ 33 REMAINED DEVELOPER AMOUNT LEVEL INDICATING MEANS SIGNAL PROCESSING MEANS



FIG. 9A

FIG. 9B

FIG. 9A

STEP 1101 REMAINED DEVELOPER AMOUNT DETECTING MEANS DOES ON INDICATE DETECTING RESULT (IMMEDIATELY AFTER MAIN SWITCH ON, JAM PROCESS, CRG EXCHANGE, AND THÉ LIKE) STEP 1103 **STEP 1102** READ OUT MEMORIZED ALARM INDICATE ALARM OF "TONER LOW" INFORMATION RELATED TO REMAINED OR "TONER OUT" **DEVELOPER AMOUNT** STEP 1104 < START PRINT JOB STEP 1105 DETECT CURRENT REMAINED DEVELOPER AMOUNT LEVEL **STEP 1106** IS CURRENT REMAINED DEVELOPER NO AMOUNT LEVEL CONFIRMED YES

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FIG. 9B

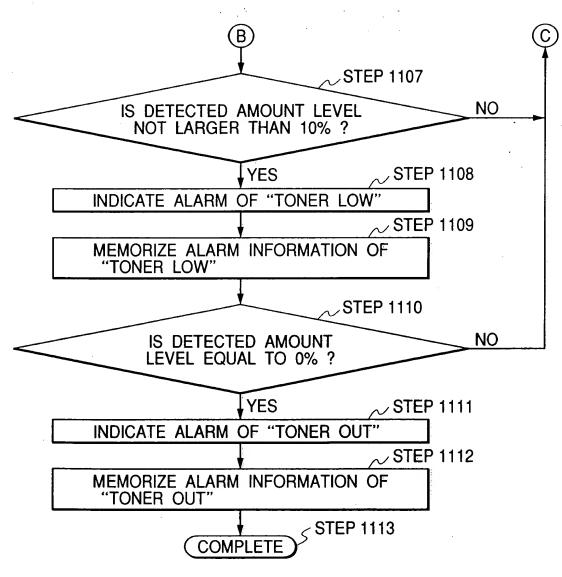


FIG. 10

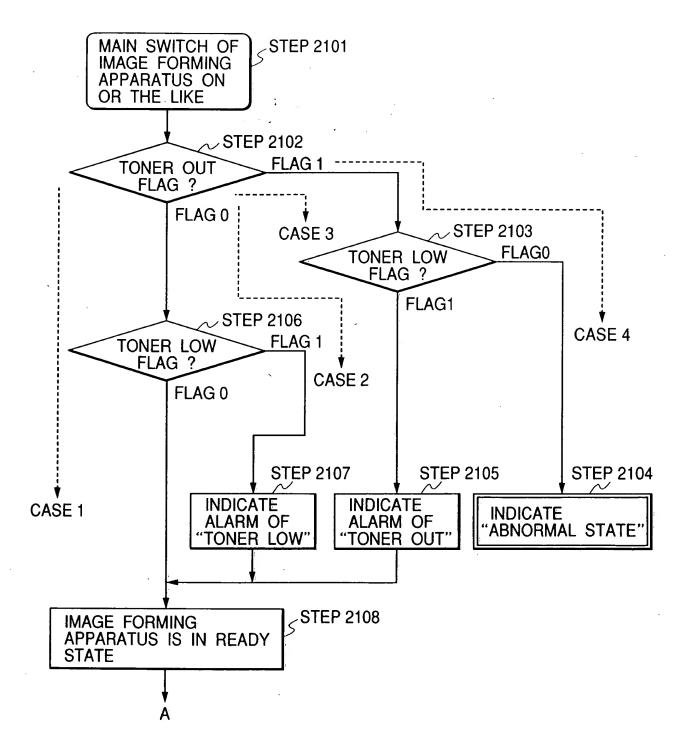
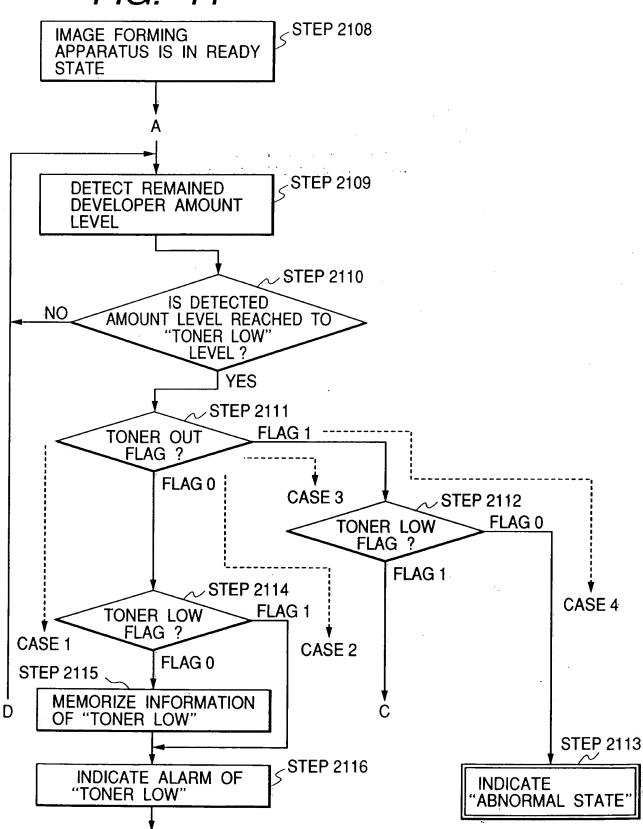


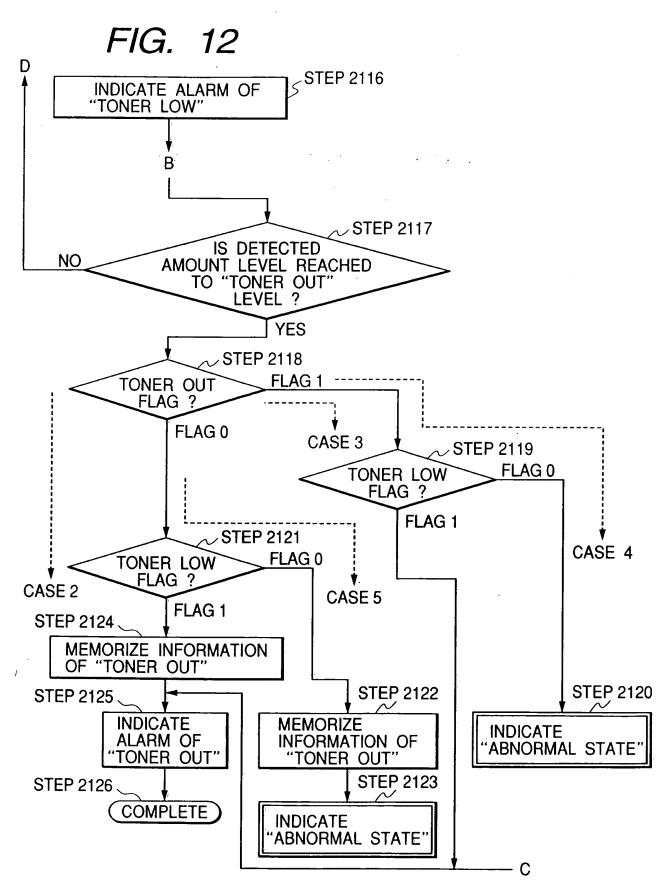
FIG. 11

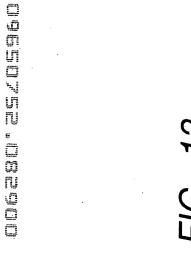
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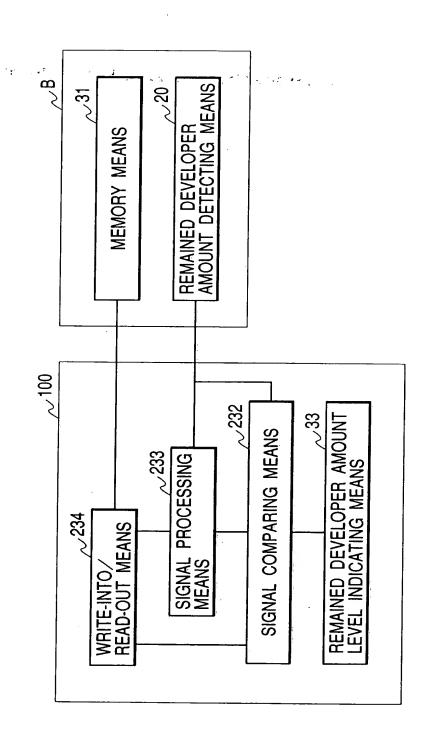


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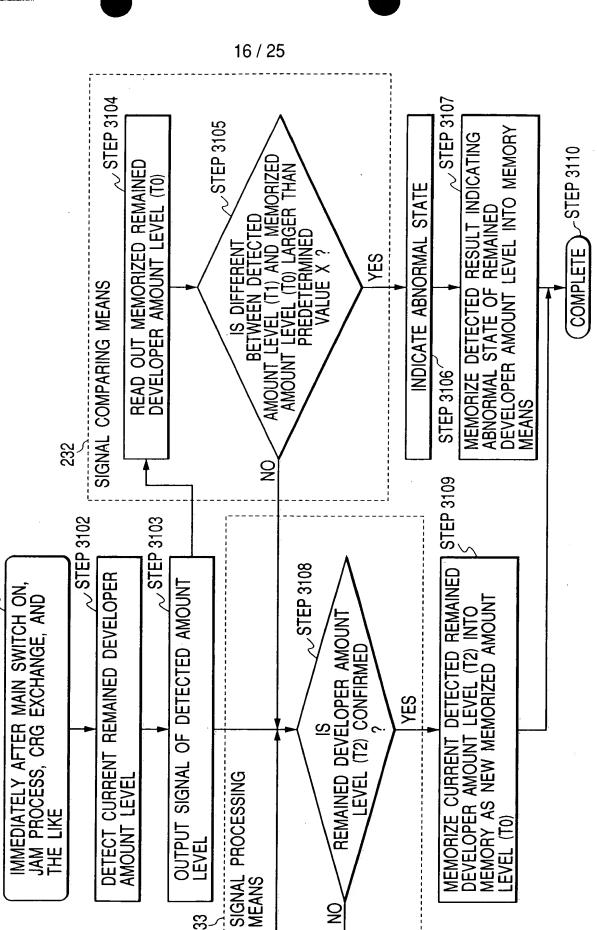




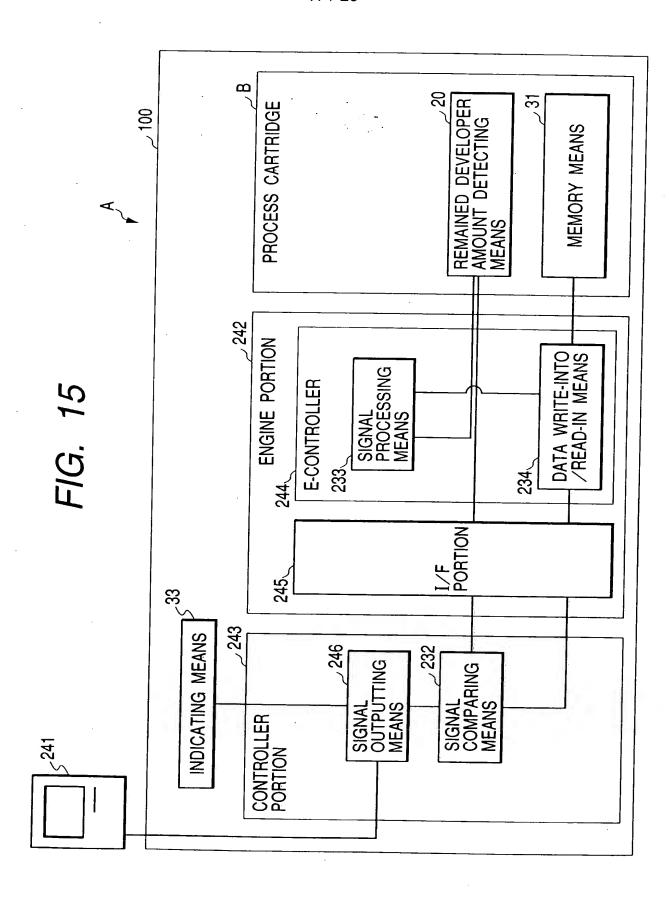


STEP 3101

F/G. 14

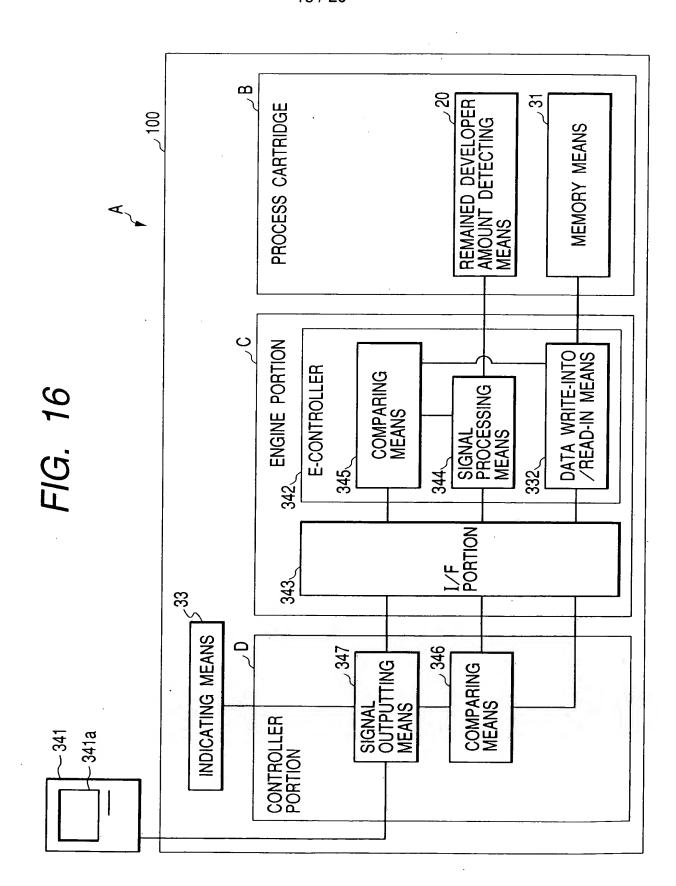


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FIG. 17

FIG. 17A

FIG. 17B

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FIG. 17A

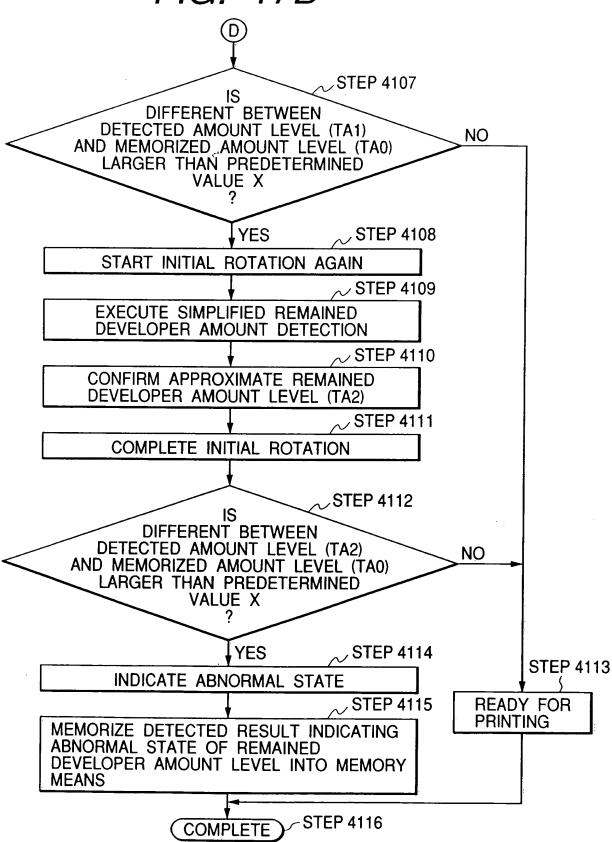
REMAINED DEVELOPER AMOUNT DETECTING

STEP 4101

MEANS DOES NOT INDICATE DETECTING RESULT (IMMEDIATELY AFTER MAIN SWITCH ON, JAM PROCESS, CRG EXCHANGE, AND THE LIKE) STEP 4102 START INITIAL ROTATION EXECUTE SIMPLIFIED REMAINED DEVELOPER AMOUNT DETECTION STEP 4104 CONFIRM APPROXIMATE REMAINED DEVELOPER AMOUNT LEVEL (TA1) STEP 4105 COMPLETE INITIAL ROTATION STEP 4106 READ OUT MEMORIZED REMAINED DEVELOPER AMOUNT LEVEL (TA0)

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FIG. 17B



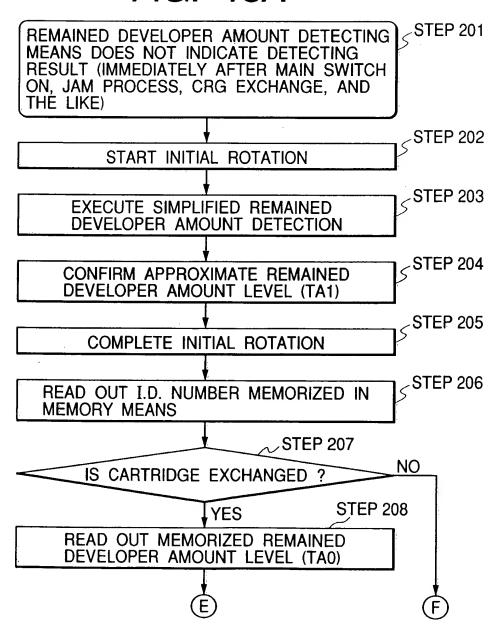
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FIG. 18

FIG. 18A

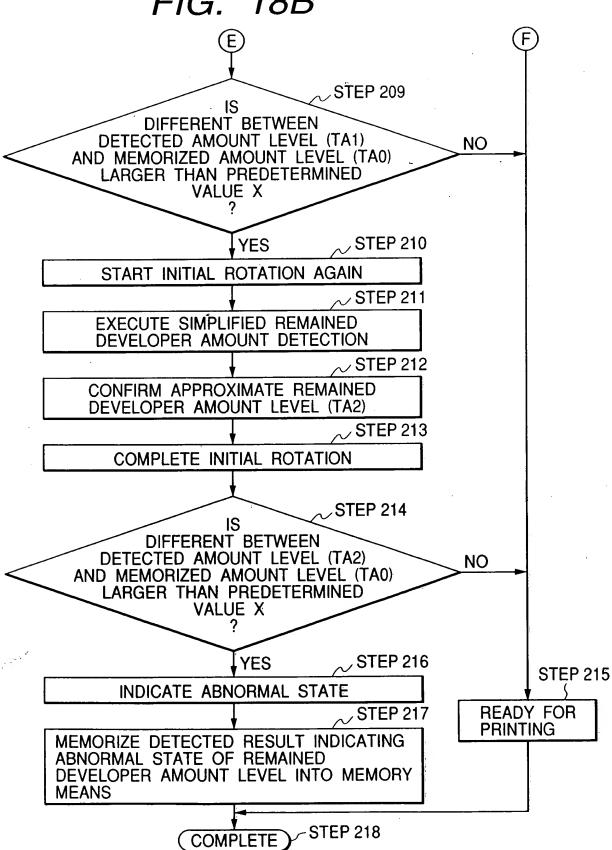
FIG. 18B

FIG. 18A

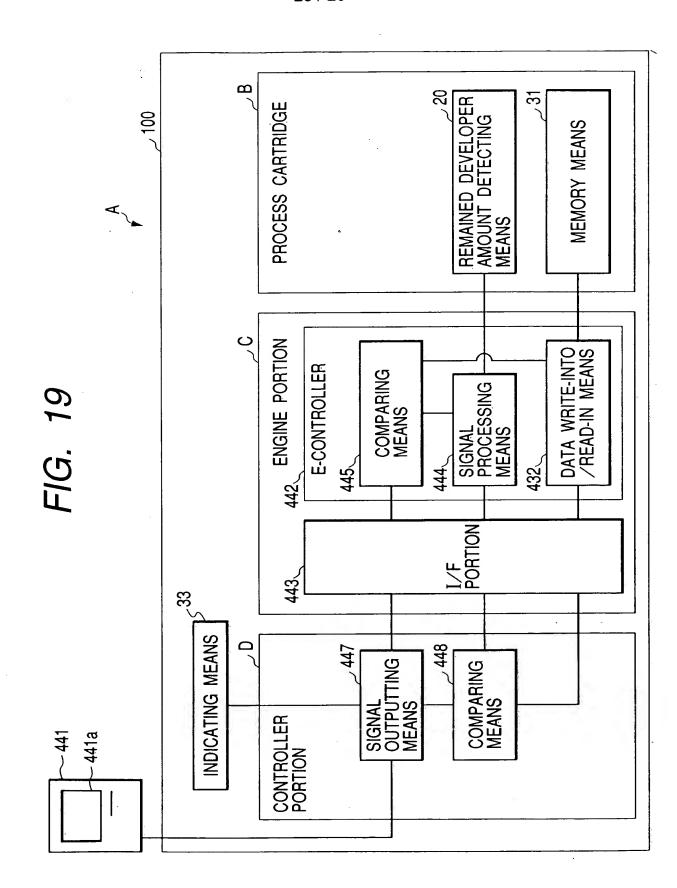


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FIG. 18B



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